

Certificate of Analysis

| | | | |
|-----------------|----------|---------------------------|--------------|
| Product | Methanol | Batch No. | : 21 05 0291 |
| Grade | AR. | Manufacturing date | : 31/05/2021 |
| Code No. | AR1115 | Best before | : 05/2025 |

| Items | Descriptions | Specifications | | Test Results |
|-------|---|----------------|------|--------------|
| 1 | Assay (by GC.) | 99.9% | min. | 99.9% |
| 2 | Appearance | Clear | | Clear |
| 3 | Color (APHA) | 10 | max. | < 10 |
| 4 | Water (by Coulometry) | 0.05% | max. | 0.029% |
| 5 | Acidity (mEq./g.) | 0.0003 | max. | < 0.0003 |
| 6 | Alkalinity (mEq./g.) | 0.0002 | max. | < 0.0002 |
| 7 | Residue on Evaporation | 0.001% | max. | < 0.001% |
| 8 | Carbonyl Compounds (as CH ₃ CHO) | 0.001% | max. | < 0.001% |
| 9 | Solubility in water | Passes test | | Passes test |
| 10 | Substances darkened by sulfuric acid | Passes test | | Passes test |
| 11 | Substances reducing permanganate | Passes test | | Passes test |

Meet A.C.S. Specifications.

This is to certify the above batch has been tested and complies with this specification.

Ladaphan.

Chemist

Achun .

Technical Manager